CROSS CONNECTION CONTROL DEVICE SCHEDULE (CCD)

MARK	LOCATION	SERVICE	TYPE	SIZE	BASIS OF DESIGN		REMARKS
					MANUFACTURER	MODEL	
200-CCD-1	BUILDING 200 AREA WELL	DOMESTIC WATER	RPZ	8"	WATTS	957-NRS	PROVIDE HEAT TRACING AND STRUCTURAL ENCLOSURE PER SHEET 200-PL-200, ASSE 1013
200-CCD-2	BUILDING 200 MECH ROOM	BUILDING 200 DOMESTIC WATER BACK-UP	RPZ	8	WATTS	957-NRS	ASSE 1013
228-CCD-1	BUILDING 228 SPRINLKER VALVE ROOM 1049	FIRE PROTECTION	DCDA	6"	WATTS	709DCDA	VERTICAL INSTALLATION, ASSE 1015
NOTES:							

DOMESTIC COLD WATER (CW)
DOMESTIC HOT WATER (HW)
RECIRCULATING DOMESTIC HOT WATER (RHW)
NP — NON-POTABLE WATER
S — SOFT WATER
DW — DIALYSIS WATER
DA — DIALYSIS ACID
DE — DISTILLED WATER
DI — DEIONIZED WATER
RO — REVERSE OSMOSIS WATER
W — SANITARY WASTE ABOVE OR BELOW GROUND/FLOOR
SW — SPECIAL WASTE
AW — ACID WASTE
IW — INFLAMMABLE WASTE
PW — PUMPED WASTE (SEWAGE FORCED MAIN)
CWW — CLEARWATER WASTE
SANITARY VENT
SV — SPECIAL VENT
AV — ACID VENT
IV — INFLAMMABLE VENT
CWV — CLEARWATER VENT
RW — RAIN WATER / STORM WATER
ORW — OVERFLOW RAIN WATER / STORM WATER
PS — PUMPED RAIN WATER/STORM WATER (FORCED MAIN)
D — DRAIN
CD — CONDENSATE DRAIN
G — NATURAL GAS
IG — INTERRUPTIBLE GAS
PGA — PROPANE GAS AIR (PROPANE/AIR MIXTURE)
LPG — LIQUEFIED PROPANE GAS
LP — LIQUID PROPANE
CA — COMPRESSED AIR
CDA — CLEAN DRY COMPRESSED AIR
LA — LABORATORY COMPRESSED AIR
LV — LABORATORY VACUUM
H2 — HYDROGEN
LO2 — LIQUID OXYGEN
LN2 — LIQUID NITROGEN
LH2 — LIQUID HYDROGEN
HPO2 — HIGH PURITY OXYGEN
HPN2 — HIGH PURITY NITROGEN
HPH2 — HIGH PURITY HYDROGEN
HT — HEAT TRACING

ELBOW DOWN
ELBOW UP
TEE DOWN
TEE UP
FLOW DIRECTION
SHUT-OFF VALVE
BALANCING VALVE
AUTOMATIC FLOW CONTROL VALVE
VALVE IN VERTICAL PIPE
CHECK VALVE (FLOW DIRECTION INDICATED)
2-WAY MODULATING CONTROL VALVE
3-WAY MODULATING CONTROL VALVE
2-WAY, 2-POSITION CONTROL VALVE
3-WAY, 2-POSITION CONTROL VALVE
PRESSURE REDUCING VALVE
REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RELIEF VALVE (ELEVATION)
RELIEF VALVE (PLAN VIEW)
FLOW MEASURING DEVICE
STRAINER
STRAINER W/ BLOWDOWN VALVE
EXPANSION JOINT
FLEXIBLE CONNECTION
UNION
PIPE ANCHOR
PIPE GUIDE
MANUAL AIR VENT
ECCENTRIC REDUCER
CONCENTRIC REDUCER
TEST PLUG
THERMOMETER
PRESSURE GAUGE
TEMPERATURE GAUGE
CONNECTION
CONNECTION (TOP)
CONNECTION (BOTTOM)
CLEANOUT
HOSE BIBB (HB) OR WALL HYDRANT (WH)
PITCH PIPE DOWN
FLOOR DRAIN (FD)
ROOF DRAIN (RD)
AREA DRAIN (AD)
FLOOR SINK (FS)
TRENCH DRAIN (TD)
HUB DRAIN (HD)
PIPE END CAP
CONNECT TO EXISTING
DEMOLISHED PIPING
ABANDONED IN PLACE PIPING
FLOOR CLEANOUT
VENT THROUGH ROOF
AIR ADMITTANCE VALVE

1 PIPING DESIGNATIONS
NO SCALE

F — FIRE PROTECTION PIPING
D — DRAIN PIPING
UPRIGHT SPRINKLERS
PENDANT SPRINKLERS
RECESSED SPRINKLERS
FLUSH CONCEALED SPRINKLERS
SIDEWALL SPRINKLERS
FIRE DEPARTMENT VALVE
FDV
FLOW SWITCH
STANDPIPE
INSPECTOR'S VALVE
SUPERVISED VALVE
DOUBLE DETECTOR CHECK VALVE
CHECK VALVE W/ BALL DRIP
FIRE DEPARTMENT CONNECTION
FIRE PUMP TEST CONNECTION
DRY PIPE VALVE
PREACTION VALVE
FLOW SWITCH

2 PIPING SYMBOLS
NO SCALE

MV — MEDICAL VACUUM
MA — MEDICAL COMPRESSED AIR
O2 — OXYGEN
N2 — NITROGEN
N2O — NITROUS OXIDE
WAGD — WASTE ANESTHETIC GAS DISPOSAL
CO2 — CARBON DIOXIDE
MEDICAL VACUUM INLET
MEDICAL COMPRESSED AIR OUTLET
OXYGEN OUTLET
NITROGEN OUTLET
NITROUS OXIDE OUTLET
WASTE GAS INLET
CARBON DIOXIDE OUTLET
ZVB — ZONE VALVE BOX
AAP — AREA ALARM PANEL
MAP — MASTER ALARM PANEL

3 FIRE PROTECTION DESIGNATIONS AND SYMBOLS
NO SCALE

4 MEDICAL GAS DESIGNATIONS AND SYMBOLS
NO SCALE

5 ABBREVIATIONS
NO SCALE

A
AAP — AREA ALARM PANEL
AAV — AIR ADMITTANCE VALVE
AFF — ABOVE FINISHED FLOOR
AG — AIR GAP FITTING
ALT — ALTERNATE
AP — ACCESS PANEL(S)
APD — AIR PRESSURE DROP
ARCH — ARCHITECT(URAL)

B
BFP — BACK FLOW PREVENTOR
BLDG — BUILDING
BSMT — BASEMENT
BTUH — BRITISH THERMAL UNIT PER HOUR
BWV — BACK WATER VALVE

C
CCD — CROSS CONNECTION CONTROL DEVICE
CFH — CUBIC FOOT PER HOUR
CFM — CUBIC FOOT PER MINUTE
CI — CAST IRON
CLG — CEILING
CO — CLEAN OUT
COMB — COMBINATION
CONC — CONCRETE
COND — CONDENS(ATE) (ER)
CONN — CONNECTION
CONT — CONTINU(E) (OUS) (ATION)
CONTR — CONTRACT(OR)
CSS — CLINICAL SERVICE SINK
CW — DOMESTIC COLD WATER
CWE — COLD WATER EXPRESS
CWV — CLEARWATER VENT
CWW — CLEARWATER WASTE

D
DA — DIALYSIS ACID
DCDA — DOUBLE CHECK DETECTOR ASSEMBLY
DEG — DEGREE(S)
DET — DETAIL
DF — DRINKING FOUNTAIN
DFU — DRAINAGE FIXTURE UNIT
DI — DEIONIZED WATER
DN — DOWN
DS — DOWNSPOUT
DW — DIALYSIS WATER
DWG(S) — DRAWING(S)
DWV — DRAIN, WASTE, VENT

E
EA — EACH
EDS — ELEVATED DOWNSPOUT
ELEC — ELECTRIC(AL)
EMER — EMERGENCY
EXIST — EXISTING
EJ — EXPANSION JOINT
EXT — EXTERIOR
EWC — ELECTRIC WATER COOLER

F
F — FAHRENHEIT
FCO — FLOOR CLEANOUT
FD — FLOOR DRAIN
FDV — FIRE DEPARTMENT VALVE
FFE — FINISHED FLOOR ELEVATION
FLR — FLOOR
FLEX — FLEXIBLE
FPM — FEET PER MINUTE
FS — FLOOR SINK
FT — FOOT, FEET
FTG — FOOTING
FWCO — FINISHED WALL CLEANOUT
F-XXX — PLUMBING FIXTURE

G
GA — GAUGE
GAL — GALLON
GALV — GALVANIZED
GEN — GENERATOR
GENL — GENERAL
GPH — GALLON(S) PER HOUR
GPM — GALLON(S) PER MINUTE

H
HB — HOSE BIB
HD — HUB DRAIN (RIM 1" AFF)
HP — HORSEPOWER
HTG — HEATING
HTR — HEATER
HV — HOSE VALVE
HVAC — HEATING, VENTILATION AND AIR CONDITIONING
HW — DOMESTIC HOT WATER

I
ID — INSIDE DIAMETER/DIMENSION
IE — INVERT ELEVATION
IN — INCH(ES)
INSUL — INSULATION

L
LBS/HR — POUNDS PER HOUR
LF — LINEAL FOOT, FEET

M
MAP — MASTER ALARM PANEL
MAX — MAXIMUM
MBH — 1000 BTUH
MECH — MECHANICAL(LY)
MEZZ — MEZZANINE
MFR — MANUFACTURER
MIN — MINIMUM
MIN — MINUTE
MISC — MISCELLANEOUS
MP — MATCH POINT

N
NG — NATURAL GAS
NIC — NOT IN CONTRACT
NO — NUMBER
NTS — NOT TO SCALE

O
OD — OUTSIDE DIAMETER/DIMENSION

P
PD — PRESSURE DROP
PLBG — PLUMBING
PRES — PRESSURE
PSI — POUNDS PER SQUARE INCH
PVC — POLYVINYL CHLORIDE

R
R — RADIUS
REG — REGISTER
REQD — REQUIRED
RD — ROOF DRAIN
RHW — RECIRCULATING DOMESTIC HOT WATER
RM — ROOM
RO — REVERSE OSMOSIS
RPZ — REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RW — RAIN WATER/STORM WATER

S
SF — SQUARE FEET
SFU — SUPPLY FIXTURE UNIT
SHT — SHEET
SK — SINK
SP — STANDPIPE
SPEC(S) — SPECIFICATION(S)
SS — STAINLESS STEEL
STRUC — STRUCTUR(E) (AL)

T
T — THERMOSTAT
TEMP — TEMPERATURE
TD — TRENCH DRAIN
TMV — THERMOSTATIC MIXING VALVE
TW — TEMPERED WATER/TEPID WATER
TYP — TYPICAL

V
VERT — VERTICAL
VOL — VOLUME
VS — VENT STACK
VTR — VENT THROUGH ROOF

W
W, SAN — SANITARY WASTE
W/ — WITH
W/O — WITHOUT
WC — WATER CLOSET
WH — WALL HYDRANT
WS — WASTE STACK
WTR — WATER

Y
YCO — YARD CLEANOUT

Z
ZVB — ZONE VALVE BOX

Revisions	Date

THE SIGMA GROUP
Single Source. Sound Solutions.
www.thesigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
Phone: 414-643-4200
Fax: 414-643-4210

HGA
Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
333 East Erie Street
Milwaukee, Wisconsin USA 53202
Telephone 414.278.8200 Facsimile 414.278.7734

PHASE 2 - CONSTRUCTION DOCUMENTS: MAY 22, 2012

Drawing Title: PHASE 2 - PLUMBING SYMBOLS, ABBREVIATIONS & SCHEDULES
Project Title: VA MEDICAL CENTER REPLACE EXISTING WATER MAINS PROJECT
Date: MAY 22, 2012
Project No.: VA#69PD-RA-1465 HGA#2606-008-00
Approved: Division Chief
Approved: Service Director
Building Number
Checked: R.RUFFIN
Drawn: C.POWERS
Location: HINES, ILLINOIS
DRAWING NO.: PL-001
Dwg. __ Of __
Office of Facilities Management
Department of Veterans Affairs